BookletChart™

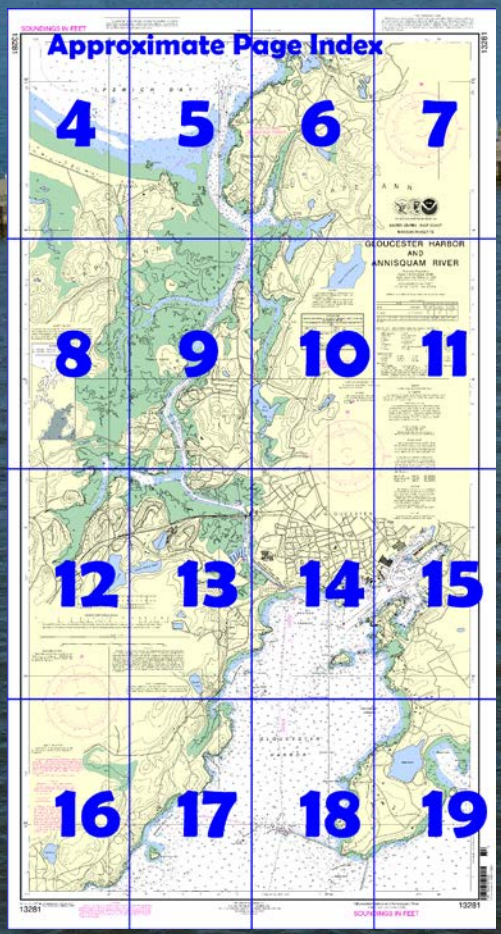
Gloucester Harbor and Annisquam River

NOAA Chart 13281

A reduced-scale NOAA nautical chart for small boaters

When possible, use the full-size NOAA chart for navigation.

- *Complete, reduced-scale nautical chart*
- *Print at home for free*
- *Convenient size*
- *Up-to-date with Notices to Mariners*
- *Compiled by NOAA's Office of Coast Survey, the nation's chartmaker*



Published by the
National Oceanic and Atmospheric Administration
National Ocean Service
Office of Coast Survey
www.NauticalCharts.NOAA.gov
888-990-NOAA

What are Nautical Charts?

Nautical charts are a fundamental tool of marine navigation. They show water depths, obstructions, buoys, other aids to navigation, and much more. The information is shown in a way that promotes safe and efficient navigation. Chart carriage is mandatory on the commercial ships that carry America's commerce. They are also used on every Navy and Coast Guard ship, fishing and passenger vessels, and are widely carried by recreational boaters.

What is a BookletChart™?

This BookletChart is made to help recreational boaters locate themselves on the water. It has been reduced in scale for convenience, but otherwise contains all the information of the full-scale nautical chart. The bar scales have also been reduced, and are accurate when used to measure distances in this BookletChart. See the Note at the bottom of page 5 for the reduction in scale applied to this chart.

Whenever possible, use the official, full scale NOAA nautical chart for navigation. Nautical chart sales agents are listed on the Internet at http://www.NauticalCharts.NOAA.gov.

This BookletChart does NOT fulfill chart carriage requirements for regulated commercial vessels under Titles 33 and 44 of the Code of Federal Regulations.

Notice to Mariners Correction Status

This BookletChart has been updated for chart corrections published in the U.S. Coast Guard Local Notice to Mariners, the National Geospatial Intelligence Agency Weekly Notice to Mariners, and, where applicable, the Canadian Coast Guard Notice to Mariners. Additional chart corrections have been made by NOAA in advance of their publication in a Notice to Mariners. The last Notices to Mariners applied to this chart are listed in the Note at the bottom of page 7. Coast Pilot excerpts are not being corrected.

For latest Coast Pilot excerpt visit the Office of Coast Survey website at http://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=13281.

(Selected Excerpts from Coast Pilot)
The **Annisquam River** and **Blynman Canal** form a thorofare leading from the eastern part of Ipswich Bay, northwest of Cape Ann, to Gloucester Harbor, on the south side of the cape.
Annisquam is a village and summer resort on the east side of Annisquam River just inside its north end. **Lobster Cove,** on the southeast side of the town, is the scene of much small pleasure-boat activity during the summer.
Prominent features.–Annisquam Harbor Light (42°39.7'N., 70°40.9'W.), 45 feet above the water, is shown from a white cylindrical tower with elevated walk to a dwelling on **Wigwam Point** at the east side at the northern entrance to Annisquam River. A red sector in the light from 180° to 217° covers the shoals on the eastern side of the approach to the bar channel from the north. A lighted bell buoy marks the approach, and a sound signal is at the light.
Channels.–A marked channel with dredged sections across the bar at the northern entrance to Annisquam River and in the river and Blynman Canal leads from Ipswich Bay to Western Harbor at the north end of Gloucester Harbor; the project depth is 8 feet.
This thorofare is narrow, but is adequately marked by lights, daybeacons, and buoys and is extensively used by small craft. Strangers should have no trouble getting through with a smooth sea and by the use of the chart. The bar at the northern entrance is difficult to cross in a heavy sea. The best time is on a rising tide.
Anchorages.–Craft anchor in the coves, creeks, or estuaries of the waterway or moor at the marinas. The entrance of **Lobster Cove,** near the north end of the waterway east of Annisquam, has been dredged as far as the bridge. In 1997, the entrance had depths of less than 1 foot in the south part, gradually deepening to over 5 feet at the north edge; thence general depths of 5 to 8 feet were available in the middle of the anchorage.
Dangers.–No special directions are necessary. The chart is the best guide. In passing from north to south in the Annisquam River and Blynman Canal, take care to avoid the unmarked rocky area covered 4 feet on the east side of the channel about 775 yards north of the Annisquam Harbor Light and 100 yards southeast of Buoy 3; a rock covered 2 feet on the east side of the river channel about 60 yards southwestward of Annisquam Harbor Light; several rocks, submerged and awash, on the east side of the channel, marked by Daybeacon 7; a rock covered 4 feet, marked by a buoy, on the east channel edge about 125 yards northward of Annisquam Channel Light 25; and an unmarked rock that uncovers 1 foot on the southwest side of the southern entrance to Blynman Canal. In 1980, obstructions were reported in the vicinity of Annisquam River Channel Light 46.
Bridges.–About 2.5 miles south of Annisquam Harbor Light, State Route 128 crosses the waterway on a fixed span which has a clearance of 65 feet for a center width of 100 feet. About 0.7 mile southward of it, the railroad bridge has a 38-foot bascule span with a clearance of 16 feet. The bridgetender monitors VHF-FM channel 18A. At the southern end of the waterway, State Route 127 highway bridge has a 38-foot bascule span with a clearance of 8 feet. The bridgetender monitors VHF-FM channel 18A; call sign, WQA-834.
Currents.–Currents at Annisquam Harbor Light average 1.3 knots at strength. Tidal currents at the southern entrance to Blynman Canal average over 3 knots at strength, but greater velocities to 10 knots were reported in 1992 in the vicinity of Blynman Bridge (State Route 127). Mariners are advised to use caution when approaching the bridge.
The Gloucester Chief of Police is also **harbormaster** for Annisquam River and Blynman Canal. The deputy harbormaster supervises the moorings and anchorages. A **speed limit** of 4 knots is enforced on the river and in Lobster Cove.
Small-craft facilities.–There is a marina on the west bank of Lobster Cove and several private float landings around the cove. Gasoline, diesel fuel, and water are available at the floats of the marina which have 12 feet reported alongside. Ice, provisions, and marine supplies are available. Overnight berthing is permitted, and guest moorings are maintained.

U.S. Coast Guard Rescue Coordination Center
24 hour Regional Contact for Emergencies

RCC Boston	Commander 1st CG District Boston, MA	(617) 223-8555

Table of Selected Chart Notes

Corrected through NM Oct. 2/10
Corrected through LNM Sep. 21/10

Mercator Projection
Scale 1:10,000 at Lat. 42°38'
North American Datum of 1983
(World Geodetic System 1984)

SOUNDINGS IN FEET
AT MEAN LOWER LOW WATER

TIDAL INFORMATION

PLACE		Height referred to datum of soundings (MLLW)		
NAME	(LAT/LONG)	Mean Higher High Water	Mean High Water	Mean Low Water
		feet	feet	feet
Annisquam	(42°39'N/70°41'W)	9.6	9.1	0.3

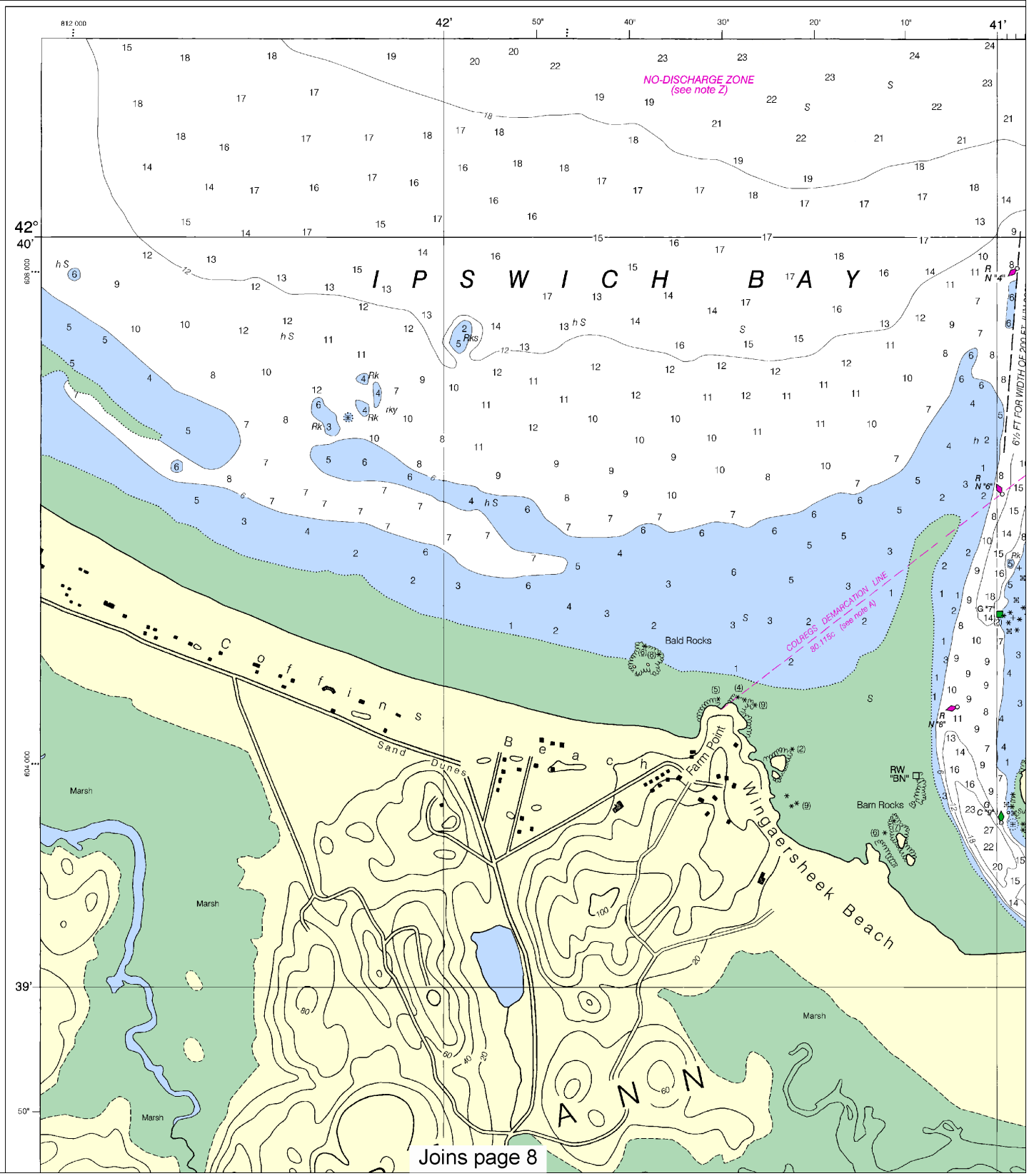
Dashes (- - -) located in datum columns indicate unavailable datum values for a tide station. Real-time water levels, tide predictions, and tidal current predictions are available on the Internet from http://tidesandcurrents.noaa.gov.

(Jun 2010)

13281

This nautical chart has been designed to promote safe navigation. The National Ocean Service encourages users to submit corrections, additions, or comments for improving this chart to the Chief, Marine Chart Division (N/CS2), National Ocean Service, NOAA, Silver Spring, Maryland 20910-3282.

SOUNDINGS IN FEET



Note: Chart grid lines are aligned with true north.

Printed at reduced scale. ~~SCALE 1:10,000~~

Nautical Miles

0

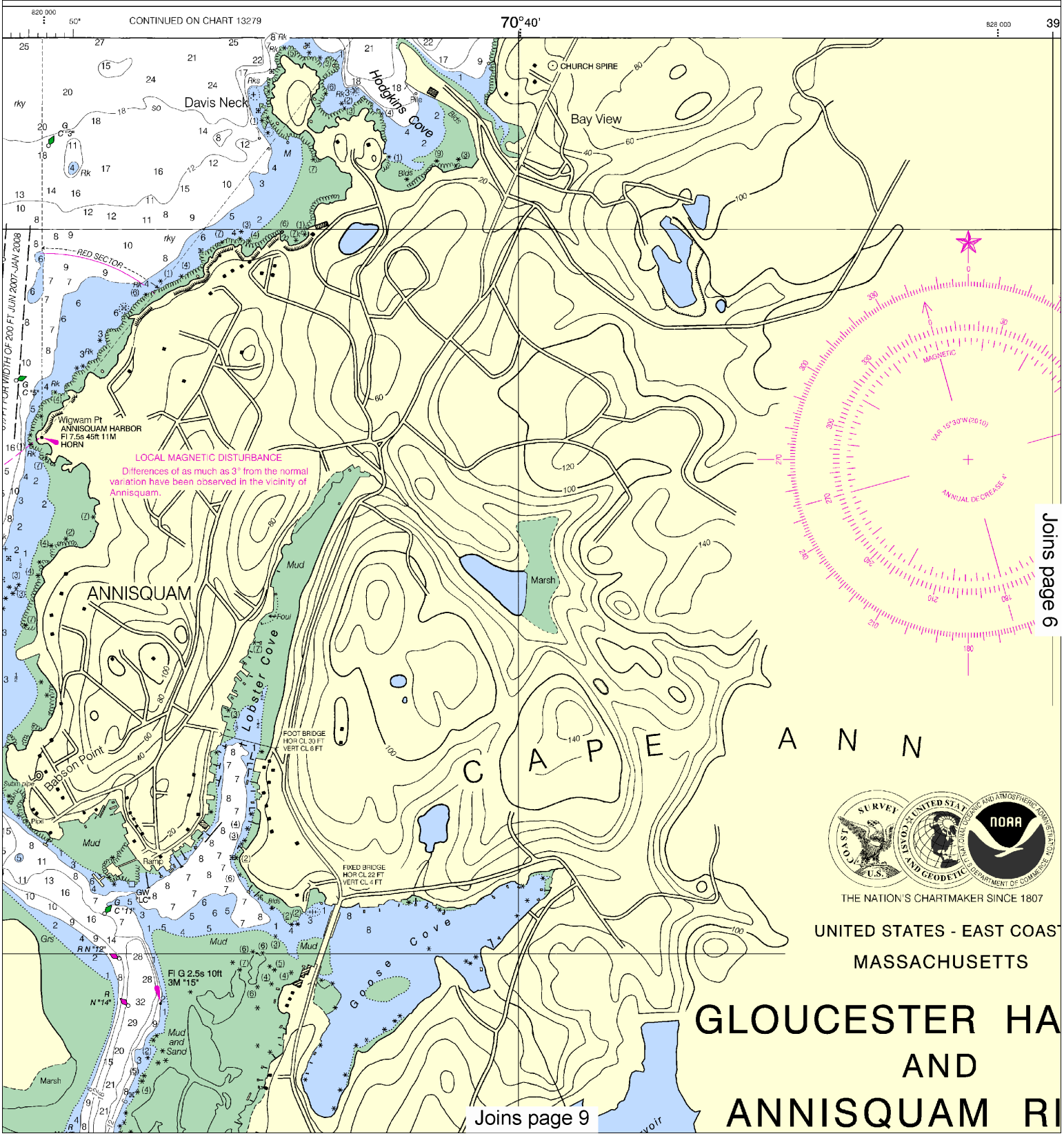
Yards

200 0 200 400 600 800 1000 1200

See Note on page 5.

PRINT-ON-DEMAND CHARTS
NOAA and its partner, OceanGrafix, offer this chart updated w
and critical corrections. Charts are printed when ordered using
Editions are available 2-8 weeks before their release as traditiona
about Print-on-Demand charts or contact NOAA at http://ocsda
OceanGrafix at 1-877-56CHART or http://www.oceangrafix.com.

Formerly C&GS 233, 1st. Ed., Mar. 1931 C-1931-347 KAPP 2066



THE NATION'S CHARTMAKER SINCE 1807

UNITED STATES - EAST COAST

MASSACHUSETTS

GLOUCESTER HA AND ANNISQUAM RI

This BookletChart was reduced to 75% of the original chart scale. The new scale is 1:13333. Barscales have also been reduced and are accurate when used to measure distances in this BookletChart.

N FEET

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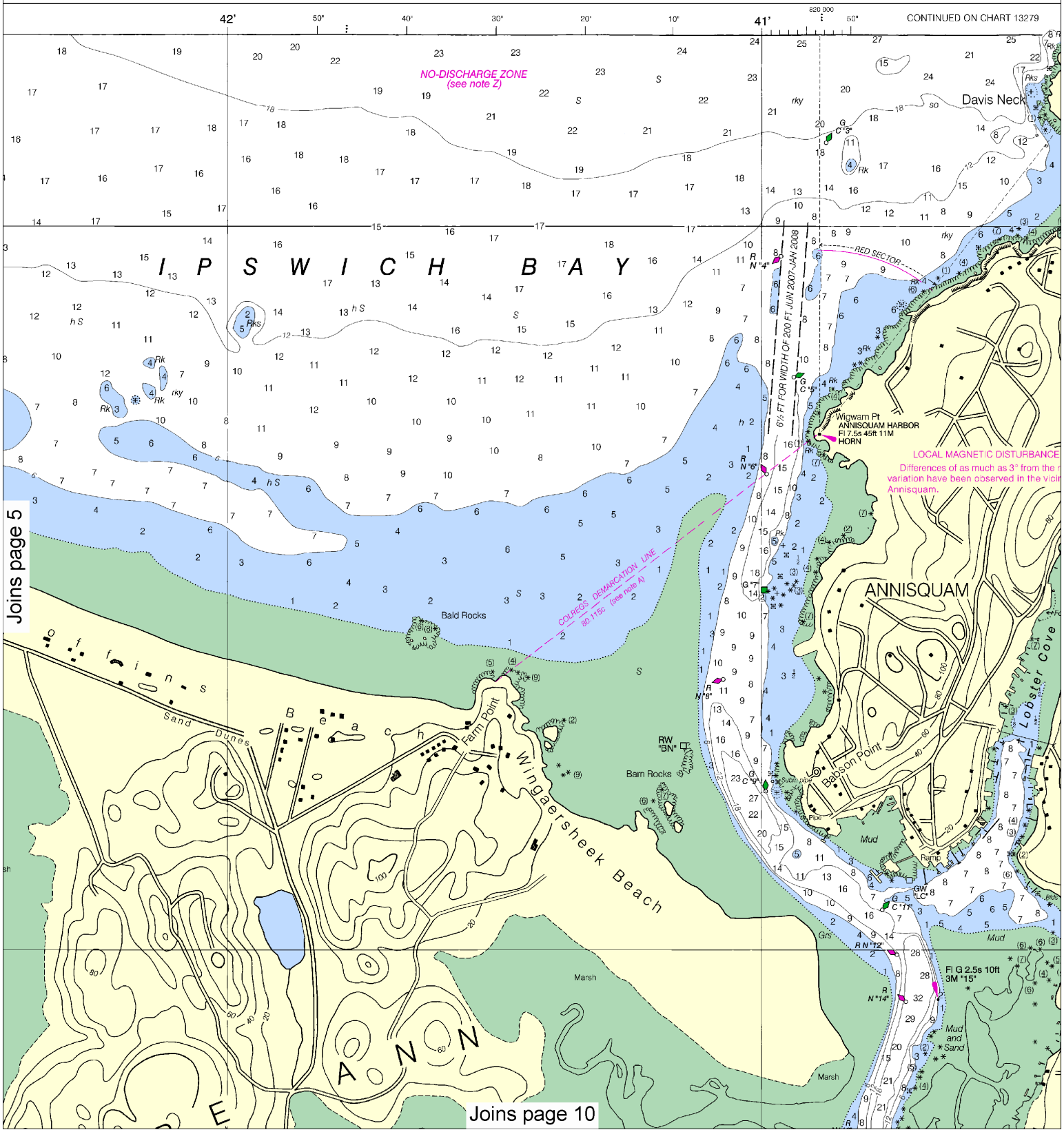

Note: Chart grid lines are aligned with true north.

Printed at reduced scale. ~~SCALE 1:10,000~~ See Note on page 5.

Nautical Miles

0

Yards

200 0 200 400 600 800 1000 1200

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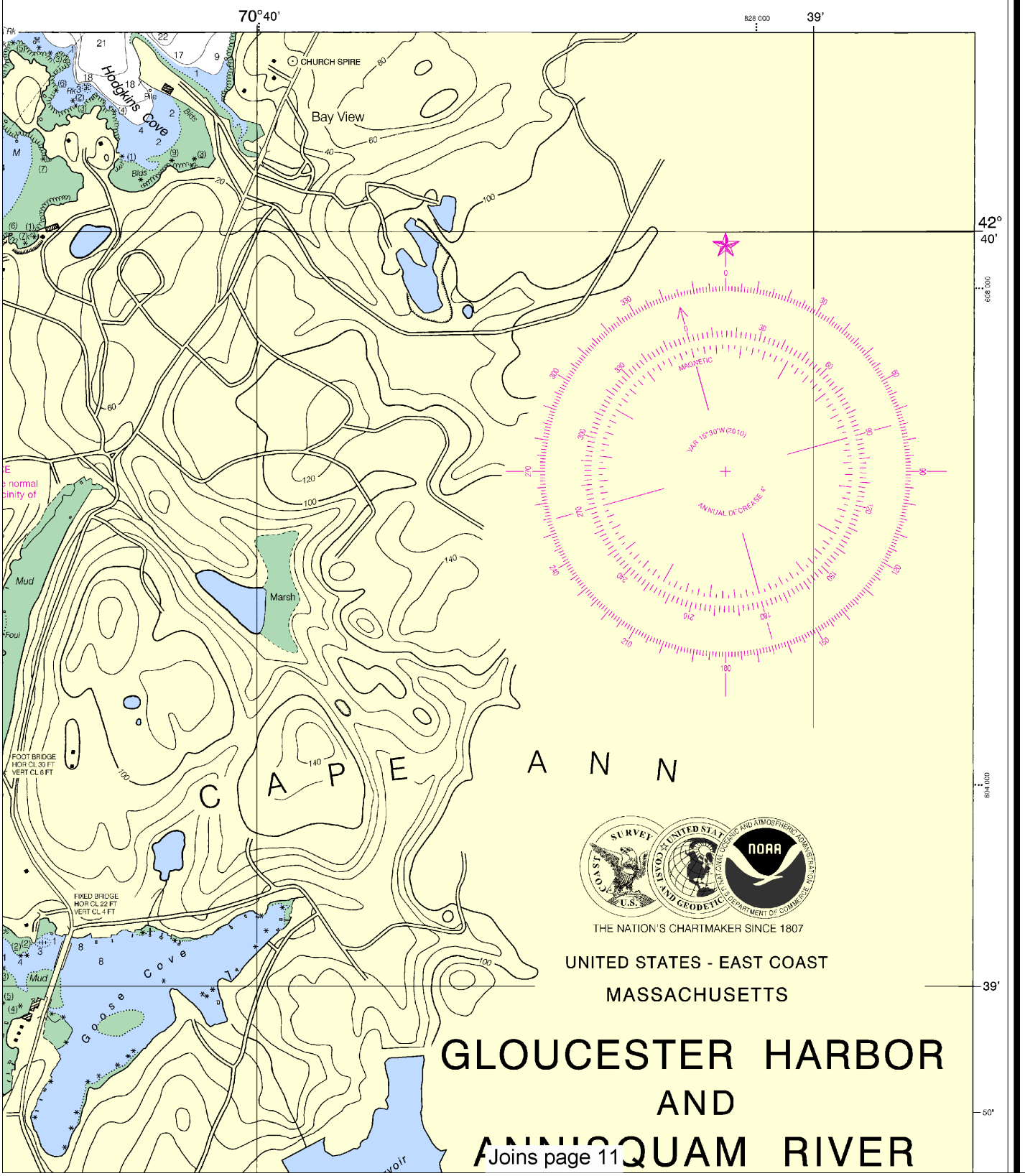
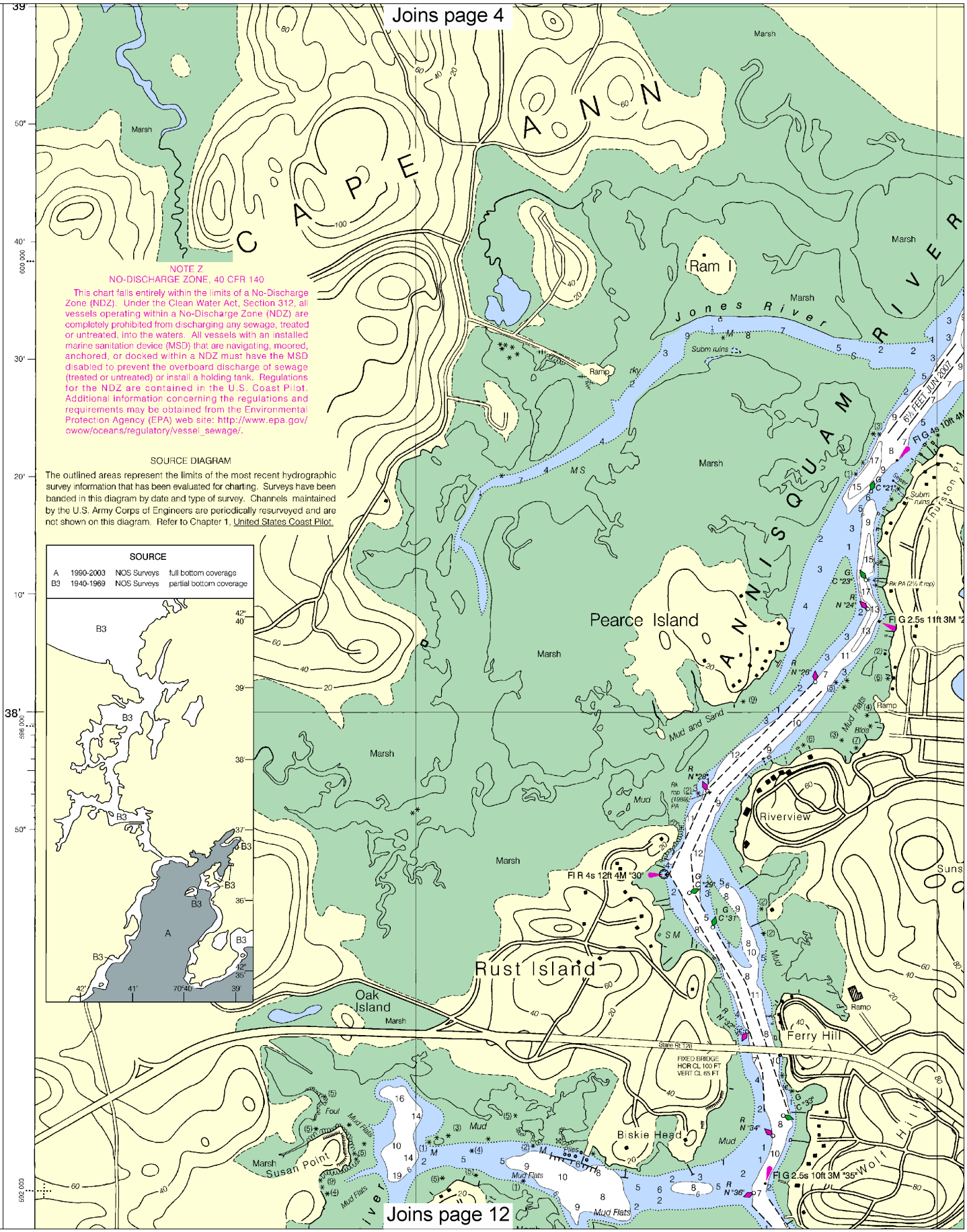
66

13281



Joins page 11

This BookletChart has been updated through: Coast Guard Local Notice To Mariners: 0613 2/5/2013,
NGA Weekly Notice to Mariners: 0713 2/16/2013,
Canadian Coast Guard Notice to Mariners: 1112 11/30/2012.



Note: Chart grid lines are aligned with true north.

Printed at reduced scale. ~~SCALE 1:10,000~~ See Note on page 5.

Nautical Miles

0

Yards

200 0 200 400 600 800 1000 1200

Joins page 5

MASSACHUSETTS

GLOUCESTER HA
AND
ANNISQUAM RI

Mercator Projection
Scale 1:10,000 at Lat. 42°38'
North American Datum of 1983
(World Geodetic System 1984)

SOUNDINGS IN FEET
AT MEAN LOWER LOW WATER

Additional information can be obtained at nauticalcharts.nos

CAUTION

Temporary changes or defects in aids to navigation are not indicated on this chart. See Local Notice to Mariners.

During some winter months or when endangered by ice, certain aids to navigation are replaced by other types or removed. For details see U.S. Coast Guard Light List.

TIDAL INFORMATION

PLACE		Height referred to datu
NAME	(LAT/LONG)	Mean Higher High Water
		feet
Annisquam	(42°39'N/70°41'W)	9.6

Dashes (- - -) located in datum columns indicate unavailable datum values for a tide station. tide predictions, and tidal current predictions are available on the Internet from http://tidesan

(Jun 2010)

ANNISQUAM RIVER

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF JUN 2009 AND SURVEYS TO JUN 2007

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)

NAME OF CHANNEL	DEPTH MLLW (FEET)	WIDTH (FEET)	DATE OF SURVEY
WESTERN HARBOR TO BMRR BRIDGE	6.6	MID-HALF	6-07
BMRR BRIDGE TO BUOY 26	A5.3	MID-HALF	6-07

A. CHANNEL HAS SHOALED TO 1.1 FEET SOUTH OF BUOY 33.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGING CONDITIONS SUBSEQUENT TO THE ABOVE

WARNING

The prudent mariner will not rely solely on any single aid to navigation, particularly on floating aids. See U.S. Coast Guard Light List and U.S. Coast Pilot for details.

ABBREVIATIONS (For complete list of Symbols and Abbreviations, see Chart No. 1.)

Aids to Navigation (lights are white unless otherwise indicated):

AERO aeronautical
Al alternating
B black
Bn beacon
C can
DIA diaphone
F fixed
Fl flashing
G green
IQ interrupted quick
Iso isophase
LT HO lighthouse
M nautical mile
m minutes
MICRO TR microwave tower
Mkr marker
Mo morse code
N nun
OBSC obscured
Oc occulting
Or orange
Q quick
R red
Ra Ref radar reflect
R Bn radiobeacon

Bottom characteristics:

Blds boulders
bk broken
Cy clay
Co coral
G gravel
Grs grass
gy gray
h hard
M mud
Oys oysters
Rk rock
S sand

Miscellaneous:

AUTH authorized
ED existence doubtful
Obstn obstruction
PA position approximate
PD position d
Rep reported

(21) Wreck, rock, obstruction, or shoal swept clear to the depth indicated
(2) Rocks that cover and uncover, with heights in feet above datum of
COLREGS: International Regulations for Preventing Collisions at Sea, 197
Demarcation lines are shown thus: — — — —

SUPPLEMENTAL INFORMATION

Consult U.S. Coast Pilot 1 for important supplemental information.

CAUTION

Mariners are warned to stay clear of the protective riprap surrounding navigational light structures shown thus:

HEIGHTS

Heights in feet above Mean High Water.

AUTHORITIES

Hydrography and topography by the National Ocean Service, Survey, with additional data from the Corps of Engineers, Geolo Survey, and U.S. Coast Guard.

HORIZONTAL DATUM

The horizontal reference datum of this chart is North American Datum of 1983 (NAD 83), which for charting purposes is considered equivalent to the World Geodetic System of 1984 (WGS 84). Geographic positions referred to the North American Datum of 1927 must be corrected an average of 0.343" northward and 1.841" eastward to agree with this chart.

PLANE COORDINATE GRID
(based on NAD 1927)

Massachusetts State Grid mainland zone, is indicated by dotted ticks at 4,000 foot intervals.

RACING BUOYS

Racing buoys within the limits of this chart are not shown hereon. Information may be obtained from the U.S. Coast Guard District Offices as racing and other private buoys are not all listed in the U.S. Coast Guard Light List.

NOAA WEATHER RADIO BROADCASTS

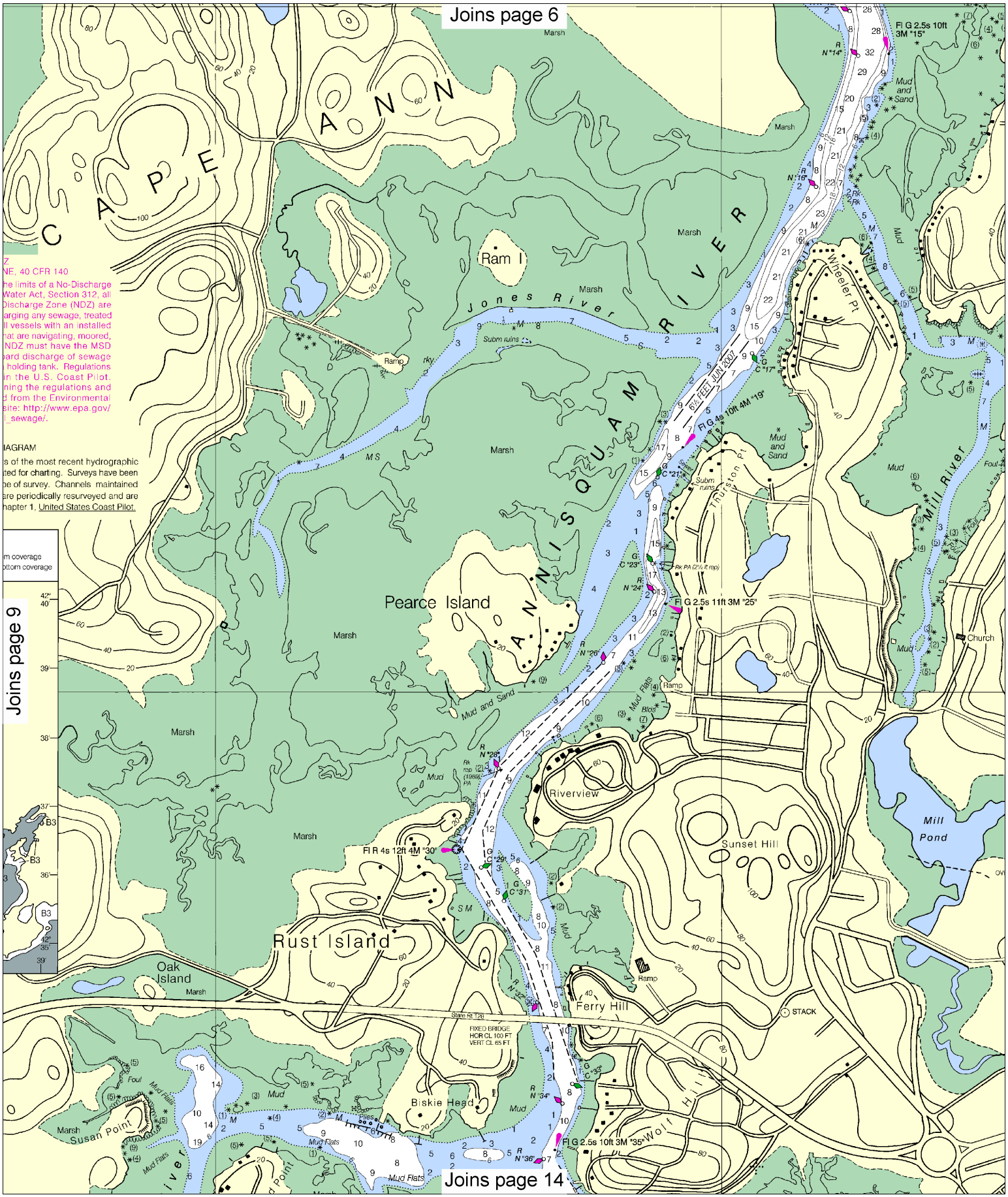
The NOAA Weather Radio stations listed below provide continuous weather broadcasts. The reception range is typically 20 to 40 nautical miles from the antenna site, but can be as much as 100 nautical miles for stations at high elevations.

Boston, MA	KHB-35	162.475 MHz
Essex Marine, MA	WNG-574	162.425 MHz
Stratham, NH	KZZ-40	162.450 MHz

CAUTION

Joins page 10

Joins page 13



Note: Chart grid lines are aligned with true north.

Printed at reduced scale. ~~SCALE 1:10,000~~ See Note on page 5.

Nautical Miles

0

Yards

200 0 200 400 600 800 1000 1200

Joins page 7 ASSACHUSETTS

GLOUCESTER HARBOR AND ANNISQUAM RIVER

Mercator Projection
Scale 1:10,000 at Lat. 42°38'
North American Datum of 1983
(World Geodetic System 1984)

SOUNDINGS IN FEET
AT MEAN LOWER LOW WATER

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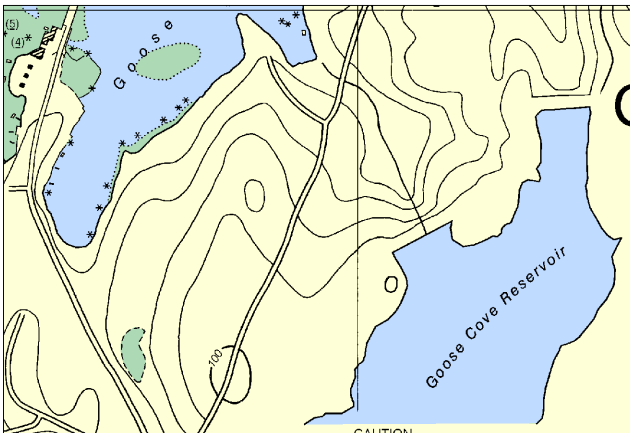

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Bn beacon
C can
DIA diaphone
F fixed
Fl flashing
G green
IQ interrupted quick
Iso isophase
LT HO lighthouse
M nautical mile
m minutes
MICRO TR microwave tower
Mkr marker
Mo morse code
N nun
OBSC obscured
Oc occulting
Or orange
Q quick
R red
Ra Ref radar reflector
R Bn radiobeacon
R TR radio tower
Rot rotating
s seconds
SEC sector
St M statute miles
VQ very quick
W white
WHIS whistle
Y yellow

Bottom characteristics:

Blds boulders
bk broken
Cy clay
Co coral
G gravel
Grs grass
gy gray
h hard
M mud
Oys oysters
Rk rock
S sand
so soft
Sh shells
sy sticky

Miscellaneous:

AUTH authorized
ED existence doubtful
Obstn obstruction
PA position approximate
PD position doubtful
Rep reported
Subm submerged

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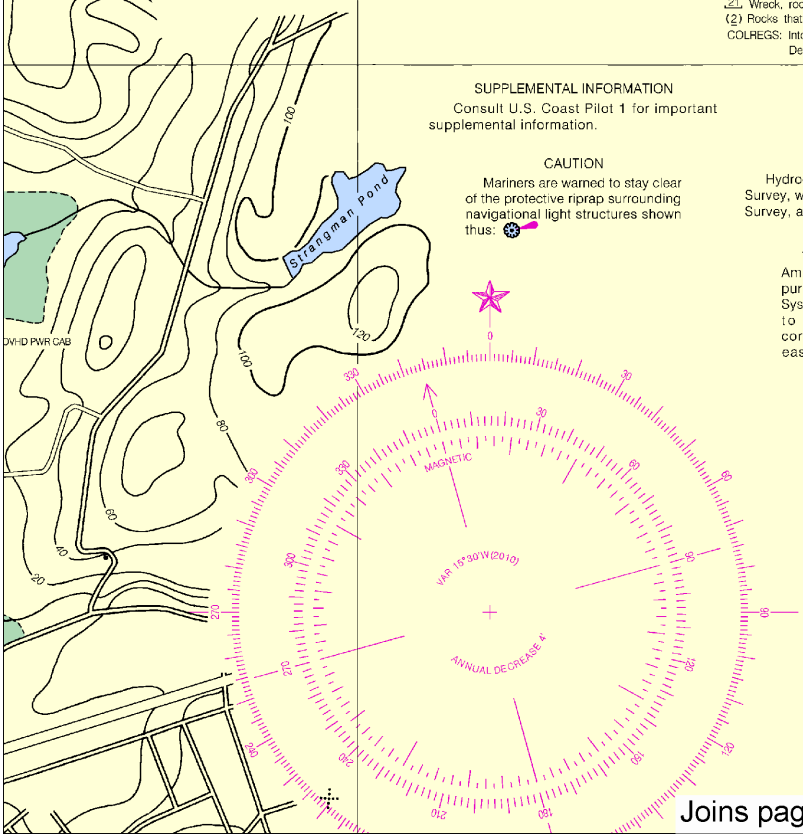

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(based on NAD 1927)

Massachusetts State Grid mainland zone, is indicated by dotted ticks at 4,000 foot intervals.

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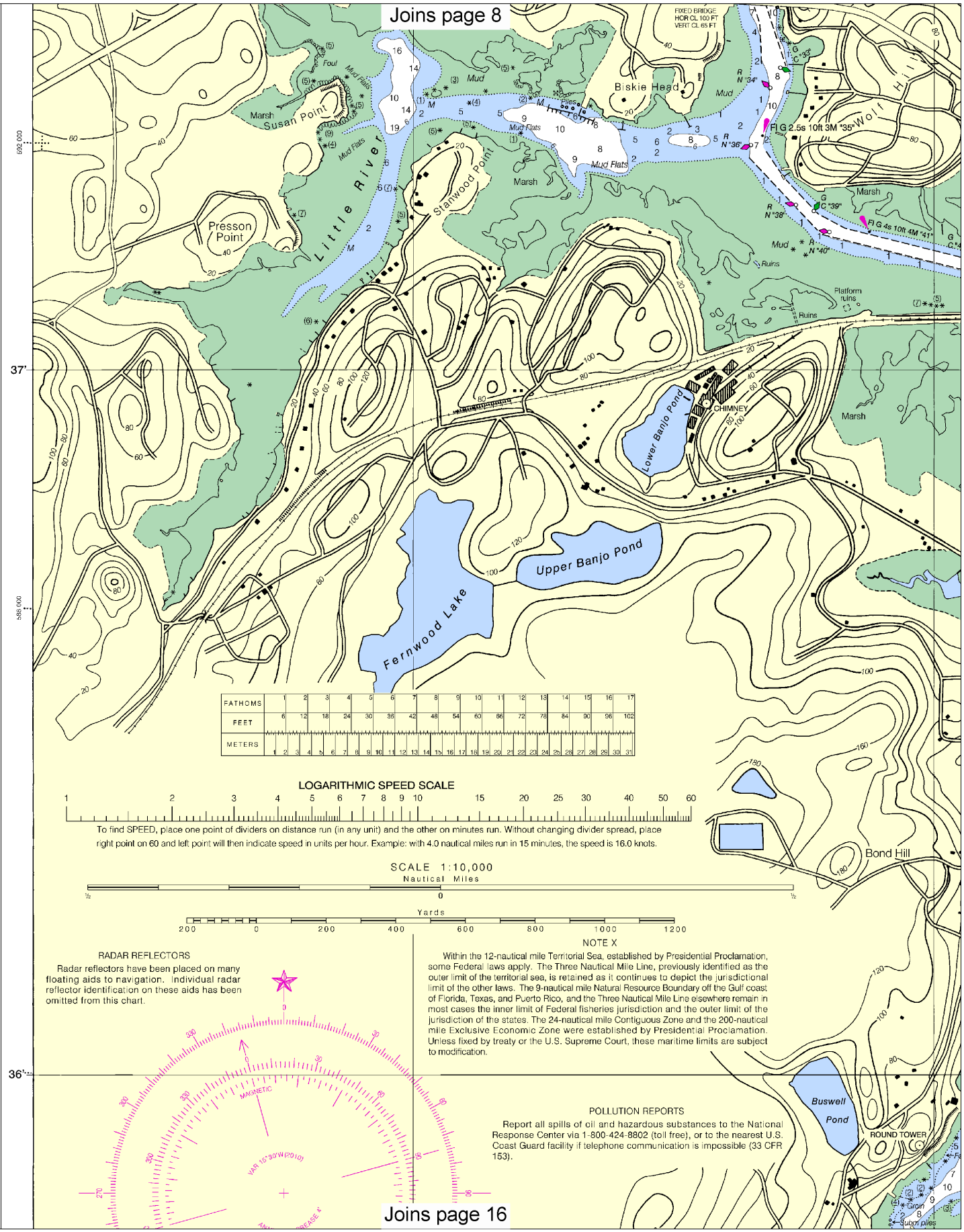
NOAA WEATHER RADIO BROADCASTS

The NOAA Weather Radio stations listed below provide continuous weather broadcasts. The reception range is typically 20 to 40 nautical miles from the antenna site, but can be as much as 100 nautical miles for stations at high elevations.

Boston, MA	KHB-35	162.475 MHz
Essex Marine, MA	WNG-574	162.425 MHz
Stratham, NH	KZZ-40	162.450 MHz

CAUTION

Joins page 15



Note: Chart grid lines are aligned with true north.

Printed at reduced scale. ~~SCALE 1:10,000~~ See Note on page 5.

Nautical Miles

0

Yards

200 0 200 400 600 800 1000 1200


Joins page 9
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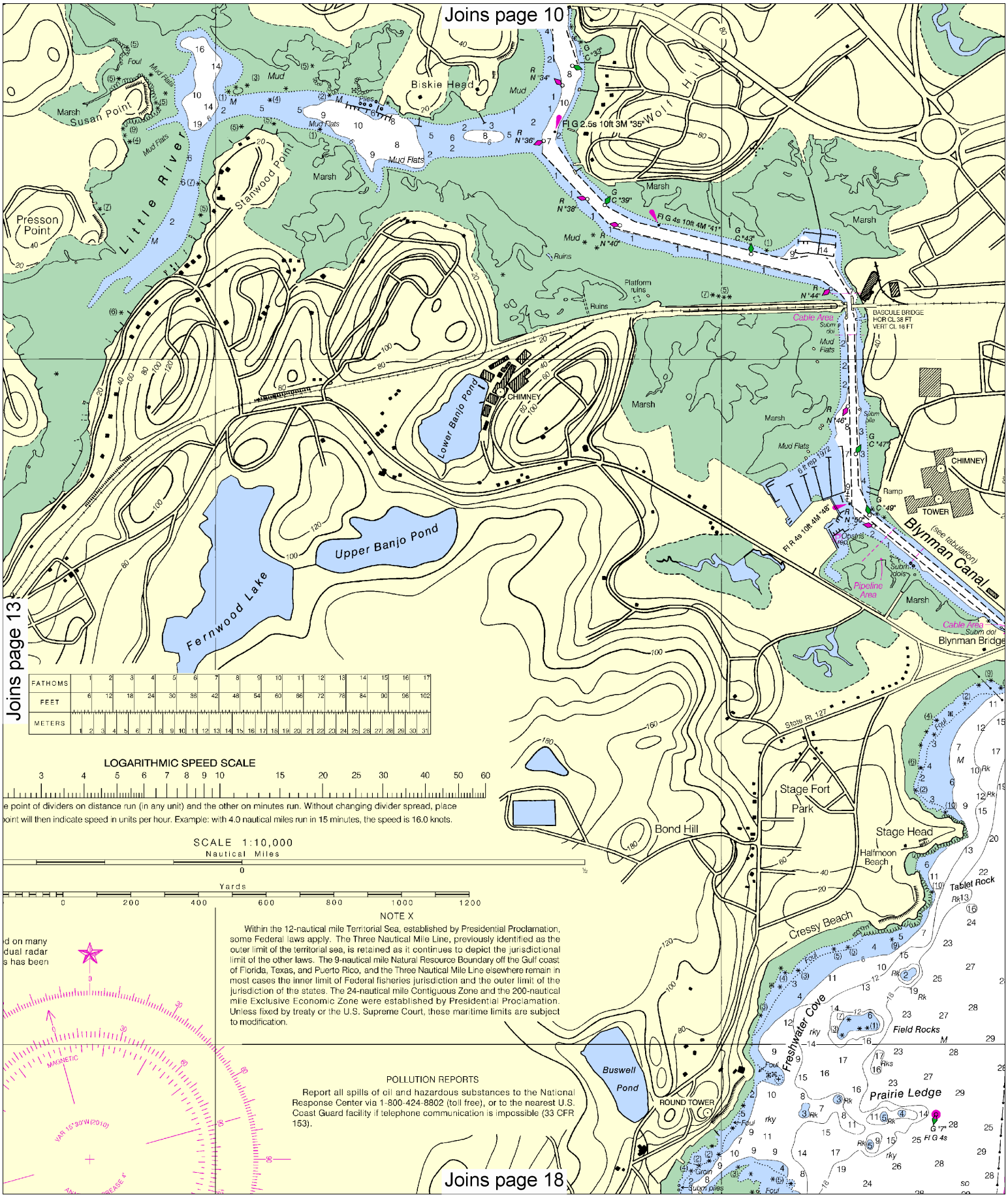
CAUTION
Limitations on the use of radio signals as aids to marine navigation can be found in the U.S. Coast Guard Light Lists and National Geospatial-Intelligence Agency Publication 117.
Radio direction-finder bearings to commercial broadcasting stations are subject to error and should be used with caution.
Station positions are shown thus:
⊙(Accurate location) o(Approximate location)
CAUTION
Improved channels shown by broken lines are subject to shoaling, particularly at the edges.
Ⓟ Pump-out facilities
GLOUCESTER
CHURCH TOWERS
CHURCH SPIRE
CLOCK TOWER
CHIMNEY
TOWER
Ramp
Marsh
Mud Flats
Cable Area
Subm pipe
BASCULE BRIDGE HOR CL 38 FT VERT CL 16 FT
Blynman Canal
(see tabulation)
Blynman Bridge
Pipeline Area
MONUMENT
Pavilion Beach
Fort Point
Harbor Cove
INNER HARBOR
ANCHORAGE 16 FT JUL 2010
NORTH CHANNEL
SOUTH CHANNEL
ENTRANCE CHANNEL
20 FT FOR A WIDTH OF 300 FT JUL 2010
17 FT FOR WIDTH OF 200 FT JUL 2010
15 FT JUL 2010
14 FT JUL 2010
WESTERN HARBOR
Babson Ledge
Black Rock
Rocky Neck
Smith Cove
Wonson Cove
Tenpound Island
FLAGPOLE
Abandoned Pipeline Area
Stage Fort Park
Stage Head
Halfmoon Beach
Tablet Rock
Cressy Beach
Freshwater Cove
Field Rocks
Prairie Ledge
Mayflower Ledge
Tenpound I Ledge
State Rt 127
Joins page 14
Joins page 17



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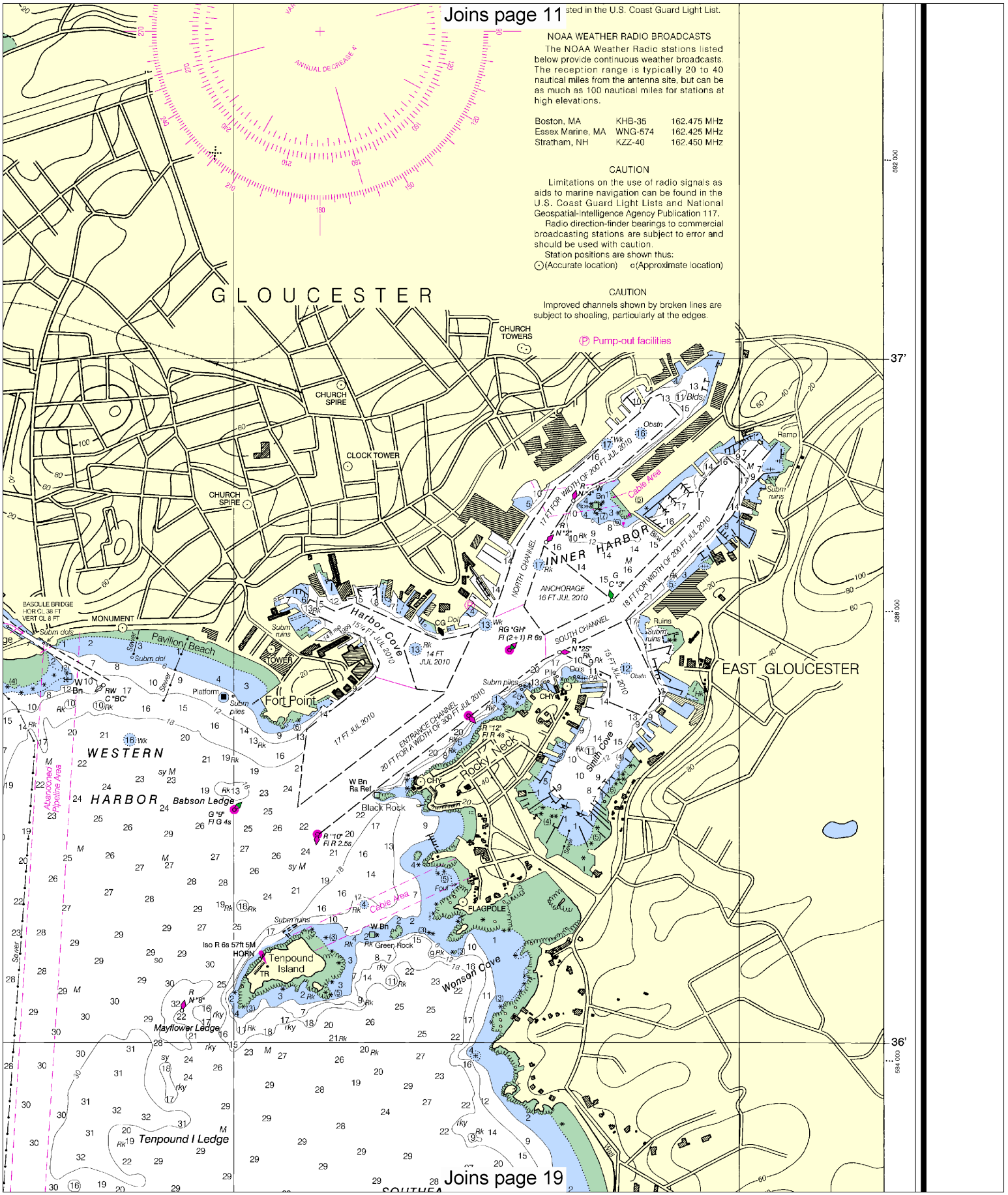
Nautical Miles

Yards


Joins page 11
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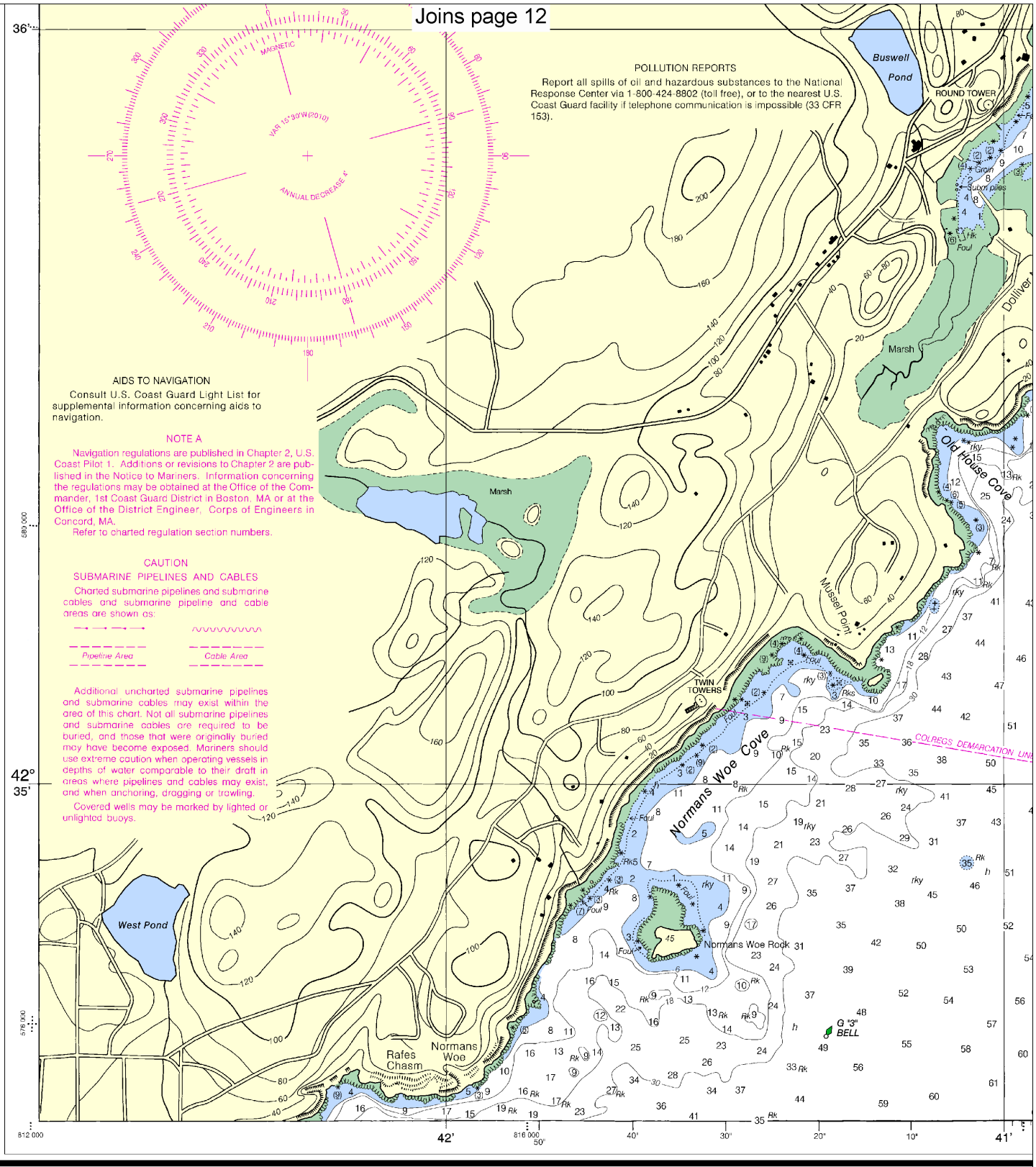
HOR CL 38 FT
VERT CL 8 FT
MONUMENT
Pavilion Beach
Fort Point
TOWER
Harbor Cove
INNER HARBOR
NORTH CHANNEL
ANCHORAGE
16 FT JUL 2010
SOUTH CHANNEL
17 FT FOR WIDTH OF 200 FT JUL 2010
18 FT FOR WIDTH OF 200 FT JUL 2010
15 FT JUL 2010
14 FT JUL 2010
17 FT JUL 2010
ENTRANCE CHANNEL
20 FT FOR A WIDTH OF 300 FT JUL 2010
Cable Area
Abandoned Pipeline Area
EAST GLOUCESTER
Rocky Neck
Smith Cove
Wonson Cove
FLAGPOLE
Black Rock
Babson Ledge
Tenpound Island
Mayflower Ledge
Tenpound I Ledge
WESTERN HARBOR
Joins page 19
692 000
588 000
584 000
37'
36'

Joins page 12



19th Ed., Oct. / 10 ■ Corrected through NM Oct. 2/10
Corrected through LNM Sep. 21/10
13281

CAUTION
This chart has been corrected from the Notice to Mariners (NM) published weekly by the National Geospatial-Intelligence Agency and the Local Notice to Mariners (LNM) issued periodically by each U.S. Coast Guard district to the dates shown in the lower left hand corner. Chart updates corrected from Notice to Mariners published after the dates shown in the lower left hand corner are available at nauticalcharts.noaa.gov.

NATIO

Note: Chart grid lines are aligned with true north.

Printed at reduced scale. ~~SCALE 1:10,000~~ See Note on page 5.

Nautical Miles
0
Yards
200 0 200 400 600 800 1000 1200

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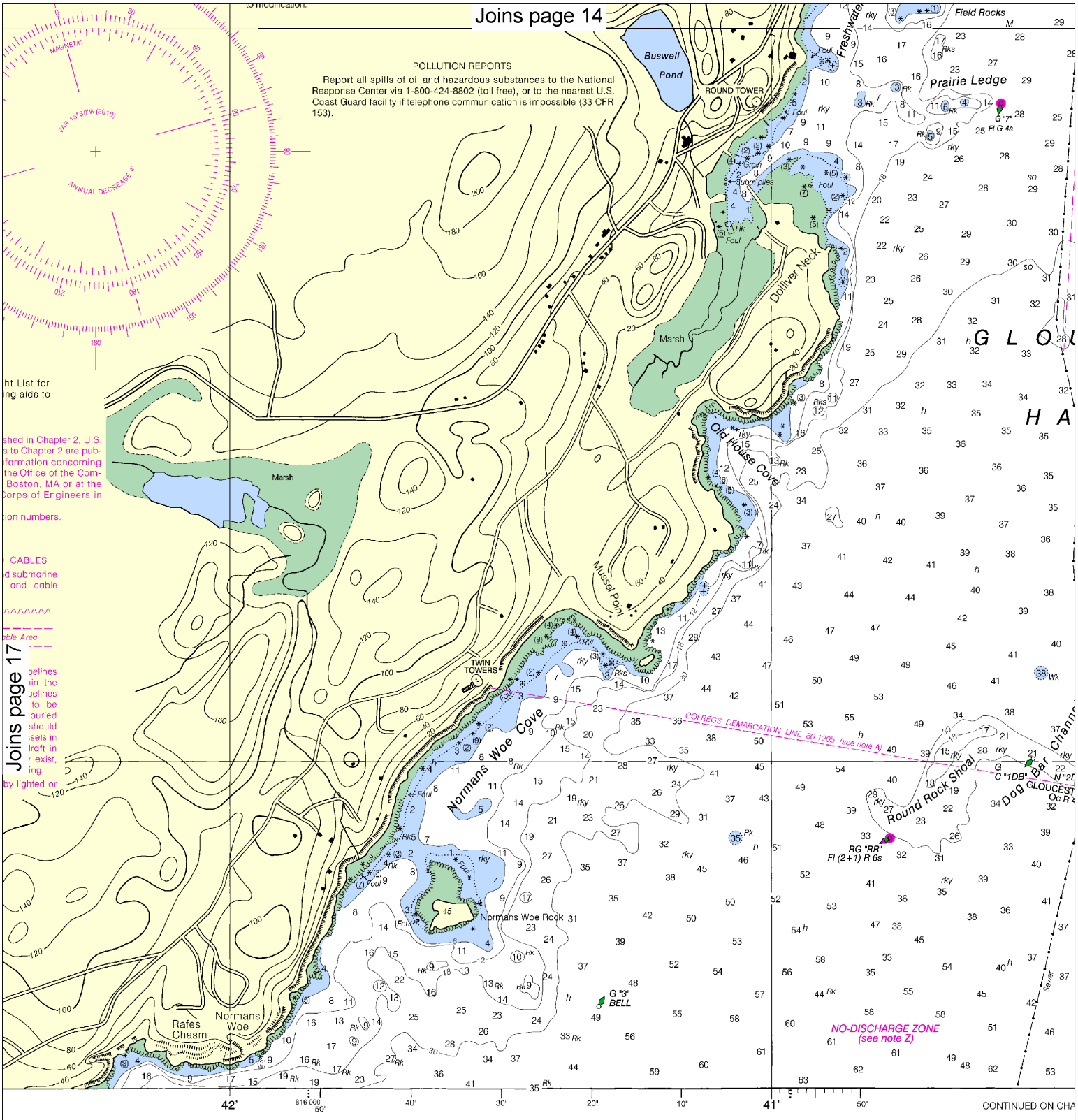
U.S. DEPARTMENT OF COMMERCE
ONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SERVICE
COAST SURVEY

Gloucester Harbor and Annisquam River

SOUNDINGS IN FEET - SCALE 1:10,000

SOUNDINGS IN FEET



Oct. 2/10
M Sep. 21/10

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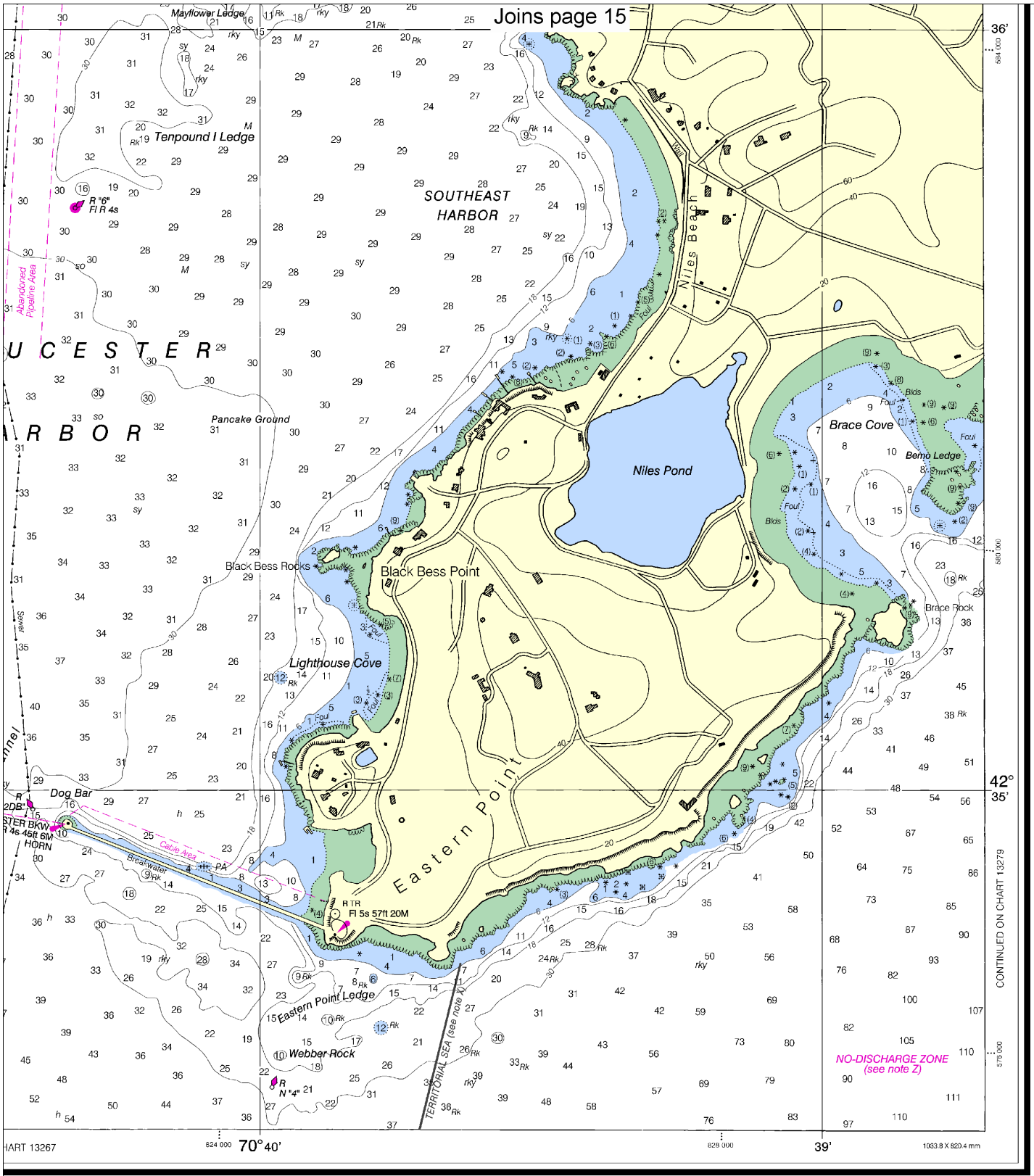
Nautical Miles
0
Yards
200 0 200 400 600 800 1000 1200



Gloucester Harbor and Annisquam River

SOUNDINGS IN FEET - SCALE 1:10,000

13281

SOUNDINGS IN FEET

ED. NO. 19

NSN 7642014010462

NGA REFERENCE NO. 13XHA13281

EMERGENCY INFORMATION

VHF Marine Radio channels for use on the waterways:

Channel 6 – Inter-ship safety communications.
Channel 9 – Communications between boats and ship-to-coast.
Channel 13 – Navigation purposes at bridges, locks, and harbors.
Channel 16 – Emergency, distress and safety calls to Coast Guard and others, and to initiate calls to other vessels. Contact the other vessel, agree to another channel, and then switch.
Channel 22A – Calls between the Coast Guard and the public. Severe weather warnings, hazards to navigation and safety warnings are broadcast here.
Channels 68, 69, 71, 72 and 78A – Recreational boat channels.

Getting and Giving Help — Signal other boaters using visual distress signals (flares, orange flag, lights, arm signals); whistles; horns; and on your VHF radio. You are required by law to help boaters in trouble. Respond to distress signals, but do not endanger yourself.

Distress Call Procedures

- Make sure radio is on.
- Select Channel 16.
- Press/Hold the transmit button.
- Clearly say: "MAYDAY, MAYDAY, MAYDAY."
- Also give: Vessel Name and/or Description; Position and/or Location; Nature of Emergency; Number of People on Board.
- Release transmit button.
- Wait for 10 seconds — If no response Repeat MAYDAY call.

HAVE ALL PERSONS PUT ON LIFE JACKETS!

All Hazards NOAA Weather Radio NOAA's National Weather Service

NOAA Weather Radio All Hazards (NWR) is a nationwide network of radio stations broadcasting continuous weather information directly from the nearest National Weather Service office. NWR broadcasts official Weather Service warnings, watches, forecasts and other hazard information 24 hours a day, 7 days a week.
http://www.nws.noaa.gov/nwr/

Quick References

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NowCoast web portal for coastal conditions	—	**http://www.nowcoast.noaa.gov/**
National Weather Service	—	**http://www.weather.gov/**
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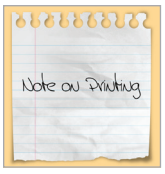

This Booklet chart has been designed for duplex printing (printed on front and back of one sheet). If a duplex option is not available on your printer, you may print each sheet and arrange them back-to-back to allow for the proper layout when viewing.

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